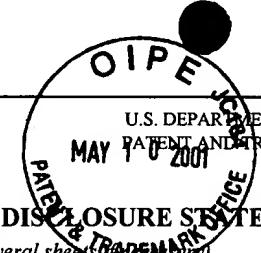
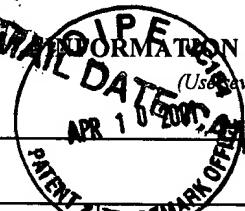


U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. 660088.441	APPLICATION NO. 09/661,848
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Robert Terkeltaub et al.	
				FILING DATE September 14, 2000	GROUP ART UNIT 1645



U.S. PATENT DOCUMENTS

*EXAMINER'S INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
V	AA 4,846,835	07/11/89	Grande	623	11	
	AB 5,041,138	08/20/91	Vacanti et al.	623	16	
	AC 5,656,450	08/12/97	Boyan et al.	435	68.1	
	AD 5,723,331	03/03/98	Tubo et al.	435	366	
	AE 5,736,372	04/07/98	Vacanti et al.	435	180	
	AF 5,786,217	07/28/98	Tubo et al.	435	402	
	AG 5,840,493	11/24/98	Davis et al.	435	6	
	AH 5,888,498	03/30/99	Davis et al.	424	93.21	
	AI 5,902,741	05/11/99	Purchio et al.	435	240.23	
	AJ 5,928,945	07/27/99	Seliktar et al.	435	395	
V	AK 5,932,459	08/03/99	Sittinger et al.	435	180	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
V	AL	WO 99/37294	07/29/99	WIPO		
V	AM	WO 99/55321	11/04/99	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

V	AN	Alevizopoulos et al., "Transforming Growth Factor- β : the Breaking Open of a Black Box," <i>BioEssays</i> 19(7):581-591, July 1997.
	AO	Al-Rubeai et al., "Cell Cycle, Cell Size and Mitochondrial Activity of Hybridoma Cells During Batch Cultivation," <i>Cytotechnology</i> 7(3):179-186, November 1991.
	AP	Anderson, "Mechanisms of Pathologic Calcification," <i>Rheum. Dis. Clin. North Amer.</i> 14(2):303-319, August 1988.
	AQ	Anderson, "Molecular Biology of Matrix Vesicles," <i>Clin. Orthopaed. Rel. Res.</i> 314:266-280, May 1995.
V	AR	Ausserer et al., "Regulation of c-jun Expression During Hypoxic and Low-Glucose Stress," <i>Mol. Cell. Biol.</i> 14(8):5032-5042, August 1994.

EXAMINER	DATE CONSIDERED
Konstantin Koh	4/10/03

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Part of Paper No. 4

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. 660088.441	APPLICATION NO. 09/661,848
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>			APPLICANTS Robert Terkeltaub et al.	
			FILING DATE September 14, 2000	GROUP ART UNIT 1645
			MAY 1 1 2001	
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U.S. PATENT DOCUMENTS				
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS SUBCLASS FILING DATE IF APPROPRIATE
BA				
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DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO
BB				
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>				
BC	Batinić-Haberle et al., "The Ortho Effect Makes Manganese(III) Meso-Tetrakis(<i>N</i> -Methylpyridinium-2-yl)Porphyrin a Powerful and Potentially Useful Superoxide Dismutase Mimic," <i>J. Biol. Chem.</i> 273(38):24521-24528, September 18, 1998.			
BD	Benya et al. "Dedifferentiated Chondrocytes Reexpress the Differentiated Collagen Phenotype When Cultured in Agarose Gels," <i>Cell</i> 30(1):215-224, August 1982.			
BE	Bisaccia et al., "Kinetic Characterization of the Reconstituted Tricarboxylate Carrier from Rat Liver Mitochondria," <i>Biochim Biophys Acta.</i> 1019(3):250-256, September 19, 1990.			
BF	Blanco et al., "Osteoarthritis Chondrocytes Die by Apoptosis. A Possible Pathway for Osteoarthritis Pathology," <i>Arthritis & Rheumatism</i> 41(2):284-289, February 1998.			
BG	Boskey et al., "Matrix Vesicles Promote Mineralization in a Gelatin Gel," <i>Calcif. Tissue Int.</i> 60(3):309-315, March 1997.			
BH	Boskey, "Matrix Proteins and Mineralization: an Overview," <i>Connect. Tissue Res.</i> 35(1-4):357-363, 1996.			
BI	Clark et al., "Transforming Growth Factor-beta (TGF- β)," <i>Int. J. Biochem. Cell. Biol.</i> 30(3):293-298, March 1998.			
BJ	Crompton et al., "On the Involvement of a Mitochondrial Pore in Reperfusion Injury," <i>Basic Res. Cardiol.</i> 88(5): 513-523, September-October 1993.			
BK	Day et al., "Metalloporphyrins are Potent Inhibitors of Lipid Peroxidation," <i>Free Radical Biology & Medicine</i> 26(5-6):730-736, March 1999.			
BL	Doherty, "Calcium Pyrophosphate in Joint Disease," <i>Hosp. Pract.</i> 29(11):93-104, November 15, 1994.			
BM	Doyle, "Tissue Calcification and Inflammation in Osteoarthritis," <i>J. Pathol.</i> 136(3):199-216, March 1982.			
BN	Dykens, <i>Mitochondria & Free Radicals in Neurodegenerative Diseases</i> , Beal, Howell and Bodis-Wollner, (Eds.), Wiley-Liss Inc., New York, 1997, Chapter 3, "Mitochondrial Free Radical Production and Oxidative Pathophysiology: Implications for Neurodegenerative Disease," pp. 29-55.			
EXAMINER <i>Konrad Koh</i>		DATE CONSIDERED <i>4/10/02</i>		
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FORM PTO-1449 (REV.7-80)			U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. 660088.441	APPLICATION NO. 09/661,848
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>			APPLICANTS Robert Terkeltaub et al.				
MAIL DATE CANCELLED APR 10 2001			FILING DATE September 14, 2000		GROUP ART UNIT 1645		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER CA	DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	DOCUMENT NUMBER CB	DATE	COUNTRY		RECEIVED		TRANSLATION YES NO
MAY 11 2001							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
W	CC	Ernster et al., "Mitochondria: A Historical Review," <i>J. Cell. Biol.</i> 91(3):227s-255s, December 1981.					
	CD	Farndale et al., "Improved Quantitation and Discrimination of Sulphated Glycosaminoglycans by Use of Dimethylmethylene Blue," <i>Biochim. Biophys. Acta</i> 883(2):173-177, September 4, 1986.					
	CE	Fiermonte et al., "The Sequence, Bacterial Expression, and Functional Reconstitution of the Rat Mitochondrial Dicarboxylate Transporter Cloned via Distant Homologs in Yeast and <i>Caenorhabditis Elegans</i> ," <i>J. Biol. Chem.</i> 273(38):24754-24759, September 18, 1998.					
	CF	Fiore et al., "The Mitochondrial ADP/ATP Carrier: Structural, Physiological and Pathological Aspects," <i>Biochimie</i> 80:137-150, 1998.					
	CG	Gilliland et al., "Disorders of the Joints and Connective Tissue," Section 14, in <i>Harrison's Principles of Internal Medicine</i> , Eighth Ed., Thorn et al., (Eds.), McGraw-Hill, New York, NY, 1977, pp. 2048-2080.					
	CH	Glowacki et al., "Cell Shape and Phenotypic Expression in Chondrocytes," <i>Proc. Soc. Exp. Biol. Med.</i> 172(1):93-98, January 1983.					
	CI	Goldberg et al., "Lipids and Biomineralization-An Overview," <i>Prog. Histochem. Cytochem.</i> 31(2):1-187, 1996.					
	CJ	Green et al., "Mitochondria and Apoptosis," <i>Science</i> 281:1309-1312, August 28, 1998.					
	CK	Green, "Apoptotic Pathways: The Roads to Ruin," <i>Cell</i> 94:695-698, September 18, 1998.					
	CL	Gunter et al., "Mechanisms by Which Mitochondria Transport Calcium," <i>Am. J. Physiol.</i> 27(5Pt1):C755-C786, May 1990.					
	CM	Gunter et al., "Mitochondrial Calcium Transport: Physiological and Pathological Relevance," <i>Am. J. Physiol.</i> 267(2Pt1):C313-C339, August 1994.					
W	CN	Gunter et al., "The Ca ²⁺ Transport Mechanisms of Mitochondria and Ca ²⁺ Uptake From Physiological-Type Ca ²⁺ Transients," <i>Biochim. Biophys. Acta</i> 1366:5-15, 1998.					
EXAMINER <i>Konstantin Katal</i>			DATE CONSIDERED 04/10/03				
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).							

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MAILED INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			APPLICANTS Robert Terkeltaub et al.				
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIALS	DA	DOCUMENT NUMBER MAY 10 2001	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
	DB	DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION	
						YES NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
W	DC	Gunter et al., "Transport of Calcium by Mitochondria," <i>J. Bioenerg. Biomembr.</i> 26(5): 471-485, 1994.					
	DD	Hyc et al., "Immunological Response Against Allogeneic Chondrocytes Transplanted Into Joint Surface Defects in Rats," <i>Cell. Transplant.</i> 6(2):119-124, March-April 1997.					
	DE	Indiveri et al., "Kinetic Characterization of the Reconstituted Dicarboxylate Carrier from Mitochondria: a Four-Binding-Site Sequential Transport System," <i>Biochim. Biophys. Acta</i> 1143(3):310-318, July 26, 1993.					
	DF	Iacobazzi et al., "Cloning and Sequencing of the Bovine cDNA Encoding the Mitochondrial Tricarboxylate Carrier Protein," <i>Biochim. Biophys. Acta</i> 1284(1):9-12, October 2, 1996.					
	DG	Ježek et al., "Mammalian mitochondrial uncoupling proteins." <i>Int J Biochem Cell Biol</i> 30(11):1163-1168, November 1998.					
	DH	Johnson et al., "Matrix Vesicle Plasma Cell Membrane Glycoprotein-1 Regulates Mineralization by Murine Osteoblastic MC3T3 Cells," <i>J. Bone Miner. Res.</i> 14(6):883-892, June 1999.					
	DI	Kapùs et al., "Is the Mitochondrial Ca^{2+} Uniporter a Voltage-Modulated Transport Pathway?", <i>FEBS Lett.</i> 282(1):61-64, April 1991.					
	DJ	Karbowski et al., "Cycloheximide and 4-OH-TEMPO Suppress Chloramphenicol-Induced Apoptosis in RL-34 Cells Via the Suppression of the Formation of Megamitochondria," <i>Biochim. Biophys. Acta</i> 1449(1):25-40, February 4, 1999.					
	DK	Klingenberg, "Principles of Carrier Catalysis Elucidated by Comparing Two Similar Membrane Translocators from Mitochondria, the ADP/ATP Carrier and the Uncoupling Protein," <i>Annals New York Academy of Sciences</i> 456:279-288, 1985.					
	DL	Kliot-Fields et al., "Purification of Cybrids by Fluorescence-Activated Cell Sorting," <i>Somatic Cell. Genet.</i> 9(3):375-389, May 1983.					
W	DM	Korsmeyer et al, "Reactive Oxygen Species and the Regulation of Cell Death by the Bcl-2 Gene Family," <i>Biochim. Biophys. Act.</i> 1271:63-66, 1995.					
EXAMINER <i>Konstantin Katchmar</i>			DATE CONSIDERED 4/10/03				
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).							

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FORM PTO-1449 (REV.7-80)			U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 660088.441	APPLICATION NO. 09/661,848	MAY 11 2001 TECH CENTER 1600/290
INFORMATION DISCLOSURE STATEMENT <i>(use several sheets if necessary)</i>			APPLICANTS Robert Terkeltaub et al.		FILING DATE September 14, 2000	GROUP ART UNIT 1645	
APR 10 2001 PCT/US00/02900 O I P E TRADEMARK OFFICE			U.S. PATENT DOCUMENTS				
*EXAMINER INITIALS EA	DOCUMENT NUMBER TRADEMARK OFFICE	DATE MAY 10 2001	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER TRADEMARK OFFICE	DATE	COUNTRY			TRANSLATION YES NO	
	EB						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>de</i>	EC	Kowaltowski et al., "Mitochondrial Damage Induced by Conditions of Oxidative Stress," <i>Free Radical Biol. Med.</i> 26(3-4):463-471, February 1999.					
	ED	Kroemer et al., "The Biochemistry of Programmed Cell Death," <i>FASEB J.</i> 9(13):1277-87, October 1995.					
	EE	Kroemer, "The Proto-Oncogene Bcl-2 and its Role in Regulating Apoptosis," <i>Nature Medicine</i> 3(6):614-620, June 1997.					
	EF	Leist et al., "Calcium and Neuronal Death," <i>Rev. Physiol. Biochem. Pharmacol.</i> 132:79-125, 1998.					
	EG	Litsky et al., "Regulation of the Mitochondrial Ca^{2+} Uniporter by External Adenine Nucleotides: the Uniporter Behaves Like a Gated Channel Which is Regulated by Nucleotides and Divalent Cations" <i>Biochem.</i> 36(23):7071-7080, June 10, 1997.					
	EH	Liu et al., "Induction of Apoptotic Program in Cell-Free Extracts: Requirement for dATP and Cytochrome c," <i>Cell</i> 86:147-157, July 12, 1996.					
	EI	Luyten et al., <i>Biological Regulation of the Chondrocytes</i> , Adolphe, Ed., CRC Press, Boca Raton, 1992, Chapter 9, "Articular Cartilage Repair: Potential Role of Growth and Differentiation Factors," pp. 227-236.					
	EJ	Manella, "Minireview: On the Structure and Gating Mechanism of the Mitochondrial Channel, VDAC," <i>J. Bioenergetics Biomembr.</i> 29(6):525-531, December 1997.					
	EK	Marchetti et al., "Apoptosis-Associated Derangement of Mitochondrial Function in Cells Lacking Mitochondrial DNA," <i>Cancer Res.</i> 56:2033-2038, May 1, 1996.					
	EL	Massagué, "TGF- β Signal Transduction," <i>Annu. Rev. Biochem.</i> 67:753-791, 1998.					
	EM	Monaghan et al., "Ultrastructural Localization of BCL-2 Protein," <i>J. Histochem. Cytochem.</i> 40(12):1819-1825, 1992.					
<i>de</i>	EN	Murphy et al., <i>Mitochondria and Free Radicals in Neurodegenerative Diseases</i> , Beal, Howell and Bodis-Wollner, (Eds.), Wiley-Liss Inc., New York, 1997, Chapter 8, "Mitochondria, Reactive Oxygen Species, and Apoptosis," pp. 159-186.					
EXAMINER <i>Konstanta Katchew</i>			DATE CONSIDERED 4/10/01				
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	FA	MAY 10 2001		TECH CENTER 1600		

FOREIGN PATENT DOCUMENTS

	TRADEMARK OFFICE DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
	FB			YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page Etc.)

ll	FC	Newmeyer et al., "Cell-Free Apoptosis in Xenopus Egg Extracts: Inhibition by Bcl-2 and Requirement for an Organelle Fraction Enriched in Mitochondria," <i>Cell</i> 79:353-364, October 21, 1994.
1	FD	Petit et al., "Mouse Testis Cell Sorting According to DNA and Mitochondrial Changes During Spermatogenesis," <i>Cytometry</i> 19(4):304-312, April 1, 1995.
	FE	Pujol et al., "Transforming Growth Factor- β (TGF- β) and Articular Chondrocytes," <i>Annales d'Endocrinologie (Paris)</i> 55(2):109-120, 1994.
	FF	Radi et al., <i>Mitochondria & Free Radicals in Neurodegenerative Diseases</i> , Beal, Howell and Bodis-Wollner, (Eds.), Wiley-Liss Inc., New York, 1997, Chapter 4, "Free Radical Damage to Mitochondria," pp. 57-89.
	FG	Rice-Evans et al., "Structure-Antioxidant Activity Relationships of Flavonoids and Phenolic Acids," <i>Free Radical Biology & Medicine</i> 20(7):933-956, 1996.
	FH	Roberts et al., "TGF- β : Regulation of Extracellular Matrix," <i>Kidney Intl.</i> 41(3):557-559, March 1992.
	FI	Romaniuk et al., "Rejection of Cartilage Formed by Transplanted Allogeneic Chondrocytes: Evaluation With Monoclonal Antibodies," <i>Transpl. Immunol.</i> 3(3):251-257, September 1995.
	FJ	Rosen et al., "Differential Effects of Aging on Human Chondrocyte Responses to Transforming Growth Factor β : Increased Pyrophosphate Production and Decreased Cell Proliferation," <i>Arthritis Rheum.</i> 40(7):1275-1281, July 1997.
	FK	Rottenberg et al., "Regulation of Ca ²⁺ Transport in Brain Mitochondria. II. The Mechanism of the Adenine Nucleotides Enhancement of Ca ²⁺ Uptake and Retention," <i>Biochim. Biophys. Acta</i> 1016(1):87-98, March 15, 1990.
	FL	Stefanovic-Racic et al., "Nitric Oxide and Energy Production in Articular Chondrocytes," <i>J. Cell Physiol.</i> 159(2):274-280, May 1994.
ll	FM	Sztralovics et al., "Resistance of Small Leucine-Rich Repeat Proteoglycans to Proteolytic Degradation During Interleukin-1-Stimulated Cartilage Catabolism," <i>Biochem. J.</i> 339(Pt 3):571-577, May 1, 1999.

EXAMINER	DATE CONSIDERED
<i>Konstantin Lebedev</i>	4/10/02
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	

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O I P E INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Robert Terkeltaub et al.	
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U.S. PATENT DOCUMENTS

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GA	MAY 10 2001					
GB						RECEIVED
GC						MAY 11 2001
GD						TECH CENTER 1600/2900

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
				YES NO
GE				
GF				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	GG	Terkeltaub et al., "Parathyroid Hormone-Related Proteins is Abundant in Osteoarthritic Cartilage, and the Parathyroid Hormone-Related Protein 1-173 Isoform is Selectively Induced by Transforming Growth Factor β in Articular Chondrocytes and Suppresses Generation of Extracellular Inorganic Pyrophosphate," <i>Arthritis Rheum.</i> 41(12):2152-2164, December 1998.
	GH	Terkeltaub, "The Immortalized Chondrocyte: Art Without Sacrifice," <i>J. Clin. Invest.</i> 94(6):2173, December 1994.
	GI	Van Beuningen et al., "Transforming Growth Factor- β 1 Stimulates Articular Chondrocyte Proteoglycan Synthesis and Induces Osteophyte Formation in the Murine Knee Joint," <i>Lab. Invest.</i> 71(2):279-290, August 1994.
	GJ	Walker et al., "Structural Analysis of ATP Synthase from Bovine Heart Mitochondria," <i>Methods in Enzymology</i> 260:163-190, 1995.
	GK	Walker et al., "Structural Analysis of NADH: Ubiquinone Oxidoreductase from Bovine Heart Mitochondria," <i>Meths. Enzymol.</i> 260:14-34, 1995.
	GL	Zamzami et al., "Reduction in Mitochondrial Potential Constitutes an Early Irreversible Step of Programmed Lymphocyte Death in Vivo," <i>J. Exp. Med.</i> 181:1661-1672, May 1995.
	GM	Zamzami et al., "Sequential Reduction of Mitochondrial Transmembrane Potential and Generation of Reactive Oxygen Species in Early Programmed Cell Death," <i>J. Exp. Med.</i> 182:367-377, August 1995.
u	GN	Zoratti et al., "Electrophysiology of the Inner Mitochondrial Membrane," <i>J. Bioenergetics Biomembr.</i> 26(5):543-553, October 1994.

EXAMINER	DATE CONSIDERED
Konstantin Lebedev	4/18/03

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANTS Robert Terkeltaub et al.		
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>	AA	5,935,796	08/10/99	Fosang	435	7.1	
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>W</i>	AD	EP 745,850	12/04/96	EPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>W</i>	AE	Chichester et al., "Immunological detection of type II collagen degradation: use in the evaluation of anti-arthritis therapies," <i>J. Pharmaceutical Pharmacology</i> 48(7):694-698, July 1996
<i>W</i>	AF	Corvo et al., "Intravenous administration of superoxide dismutase entrapped in long circulating liposomes. II. In vivo fate in a rat model of adjuvant arthritis," <i>Biochim. Biophys. Acta</i> 1419(2):325-334, July 15, 1999
	AG	Galleron et al., "Reactive oxygen species induce apoptosis of synoviocytes in vitro. α-tocopherol provides no protection," <i>Cell Biology International</i> 23(9):637-642, 1999.
	AH	Johnson et al., "Differential mechanisms of inorganic pyrophosphate production by plasma cell membrane glycoprotein-1 and B10 in chondrocytes," <i>Arthritis & Rheumatism</i> 42(9):1986-1997, September 1999.
	AI	Palmoski et al., "Marked suppression by salicylate of the augmented proteoglycan synthesis in osteoarthritic cartilage," <i>Arthritis & Rheumatism</i> 23(1):83-91, January 1980.
	AJ	Pullig et al., "Metabolic activation of chondrocytes in human osteoarthritis. Expression of type II collagen," <i>Zeitschrift Fuer Orthopaedie und Ihre Grenzgebiete</i> 137(1):67-75, 1999. (English Summary on page 67)
<i>W</i>	AK	Terkeltaub et al., "Causal link between nucleotide pyrophosphohydrolase overactivity and increased intracellular inorganic pyrophosphate generation demonstrated by transfection of cultured fibroblasts and osteoblasts with plasma cell membrane glycoprotein-1. Relevance to calcium pyrophosphate dihydrate deposition disease," <i>Arthritis & Rheumatism</i> 37(6):934-941, June 1994

EXAMINER		DATE CONSIDERED
<i>Konstantin Katcheva</i>		4/10/03

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660088.441APPLICATION NO.
09/661,848SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT
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Robert Terkeltaub et al.FILING DATE
September 14, 2000GROUP ART UNIT
1645

U.S. PATENT DOCUMENTS

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W	AA 4,870,210	09/26/89	Musser	564	228	

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			YES	
AB WO 00/06150	02/10/00	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	Ali, "Aptite-Type Crystal Deposition in Arthritic Cartilage," <i>Scanning Electron Microscopy</i> 4:1555-1566, 1985.
AD	Altman, "A Metabolic Dysfunction in Early Murine Osteoarthritis," <i>Annals of the Rheumatic Diseases</i> 40:303-306, 1981.
AE	Baginsky et al., "The Role of Hydroxyl Radicals in Rodent Models of Arthritis," <i>FASEB Journal</i> 11(3):A332, 1997.
AF	Baynes and Thorpe, "Role of Oxidative Stress in Diabetic Complications. A New Perspective on an Old Paradigm," <i>Diabetes</i> 48(1):1-9, January 1999.
AG	Boos et al., "Immunohistochemical Analysis of Type X-Collagen Expression in Osteoarthritis of the Hip Joint," <i>Journal of Orthopaedic Research</i> 17(4):495-502, July 1999.
AH	Cencetti et al., "Superoxide Anion Production by Circulating Polymorphonuclear Leucocytes in Rheumatoid Arthritis," <i>Clinical Rheumatology</i> 9(1):51-55, 1990.
AI	Chapman et al., "Increased Carbonyl Content of Proteins in Synovial Fluid for Patients with Rheumatoid Arthritis," <i>Journal of Rheumatology</i> 16(1):15-18, 1989.
AJ	Cheung et al., "Specific Inhibition of Basic Calcium Phosphate and Calcium Pyrophosphate Crystal-Induction of Metalloproteinase Synthesis by Phosphocitrate," <i>Biochimica et Biophysica Acta</i> 1315(2):105-111, 1996.
AK	Cush et al., "US Consensus Guidelines for the Use of Cyclosporin A in Rheumatoid Arthritis," <i>Journal of Rheumatology</i> 26(5):1176-1186, May 5, 1999.
AL	Glansbeek et al., "Stimulation of Articular Cartilage Repair in Established Arthritis by Local Administration of Transforming Growth Factor- β into Murine Knee Joints," <i>Laboratory Investigation</i> 78(2):133-142, February 1998.

EXAMINER

Konstantina Katcheva

DATE CONSIDERED

4/10/03

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FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 660088.441	APPLICATION NO. 09/661,848
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Robert Terkeltaub et al.	
		FILING DATE September 14, 2000	GROUP ART UNIT 1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	BB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	BC	✓	Griffey et al., "Depletion of High-Energy Phosphates in the Central Nervous System of Patients with Systemic Lupus Erythematosus, as Determined by Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy," <i>Arthritis and Rheumatism</i> 33(6):827-833, June 1990.
	BD		Ishii et al., "Effect of Growth Factors and Cytokines on Experimentally-Induced Osteoarthritic Chondrocytes," <i>Nihon University Journal of Medicine</i> 40(5):245-255, October 1998.
	BE		Hassan et al., "Protective Effects of Antioxidants Against Rheumatoid Arthritis-Induced Lipid Peroxidation and Glutathione Depletion," <i>Research Communications in Pharmacology and Toxicology</i> 3(3&4):105-113, 1998.
	BF		Johnson et al., "Mitochondrial Oxidative Phosphorylation is a Downstream Regulator of Nitric Oxide Effects on Chondrocyte Matrix Synthesis and Mineralization," <i>Arthritis and Rheumatism</i> 43(7):1560-1570, July 2000.
	BG		Kaplan et al., "Propranolol and the Treatment of Rheumatoid Arthritis," <i>Arthritis and Rheumatism</i> 23(2):253-255, February 1980.
	BH		Lafeber et al., "Transforming Growth Factor- β Predominantly Stimulates Phenotypically Changed Chondrocytes in Osteoarthritic Human Cartilage," <i>Journal of Rheumatology</i> 24(3):536-542, 1997.
	BI		Lunec et al., "A Marker of Oxidative DNA Damage in Systemic Lupus Erythematosus," <i>FEBS Letters</i> 348:131-138, 1994.
	BJ		Marinello et al., "The Purine Nucleotide Content of Lymphocytes for Patients with Rheumatoid Arthritis," <i>Int. J. Clin. Pharm. Res.</i> 14(2):57-63, 1994.
✓	BK	✓	Mark et al., "Type X Collagen Synthesis in Human Osteoarthritic Cartilage," <i>Arthritis and Rheumatism</i> 35(7):806-811, July 1992.

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Konstantina Terkeltaub	4/10/03

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CB				

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

CC	Meydani et al., "Urinary 8-OhdG as a Marker of Oxidative Stress in Rheumatoid Arthritis (RA) and Aging: Effect of Progressive Resistance Training (PRT)," <i>FASEB J.</i> 11(3):A377, 1997.
CD	Miyata et al., "Increased Pentosidine, an Advanced Glycation End Product, in Plasma and Synovial Fluid from Patients with Rheumatoid Arthritis and Its Relation with Inflammatory Markers," <i>Biochemical and Biophysical Research Communications</i> 244(1):45-49, March 6, 1998.
CE	Nordemar et al., "Muscle ATP Content in Rheumatoid Arthritis – a Biopsy Study," <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> 34(2):185-191, 1974.
CF	Pratta et al., "Effect of Ebselen on IL-1-Induced Alterations in Cartilage Metabolism," <i>Inflammation Research</i> 47(3):115-121, 1998.
CG	Rediske et al., "Nitric Oxide and Osteoarthritis: Pathways of Protein Nitrosylation in Chondrocytes," <i>Arthritis and Rheumatism</i> 40(9 Suppl.):S184, September 1997.
CH	Rosenthal, "Calcium Crystal-Associated Arthritides," <i>Current Opinion in Rheumatology</i> 10(3):273-277, May 1998.
CI	Rush et al., "The Mechanism of Acute Cytotoxicity of Triethylphosphine Gold(I) Complexes. II. Triethylphosphine Gold Chloride-Induced Alterations in Mitochondrial Function," <i>Toxicology and Applied Pharmacology</i> 90(3):391-400, 1987.
CJ	Sauleda et al., "The Activity of Cytochrome Oxidase is Increased in Circulating Lymphocytes of Patients with Chronic Obstructive Pulmonary Disease, Asthma, and Chronic Arthritis," <i>American Journal of Respiratory and Critical Care Medicine</i> 161(1):32-35, January 2000.

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Konstantina Katskava	4/10/03

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				YES	NO
DH					
DI					
DJ					
DK					

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N	DL	Tanka and Gátai, "Role of Mitochondrial Enzymes in the Pathomechanism of Rheumatoid Arthritis," <i>Acta Biochimica et Biophysica Academiae Scientiarum Hungaricae</i> 19(1-2):116, 1984.
	DM	Tanka and Keller, "Electron Transporting Enzymes of Rheumatoid Connective Tissue," <i>Acta Morphologica Acad. Sci. Hung.</i> 25(2-3):137-146, 1977.
	DN	Tomita et al., "Nitric Oxide Regulates Mitochondrial Respiration and Functions of Articular Chondrocytes," <i>Arthritis & Rheumatism</i> 44(1):96-104, January 2001.
	DO	Willer et al., "Effects of Creatine Supplementation on Muscle Weakness in Patients with Rheumatoid Arthritis," <i>Rheumatology</i> 39(3):293-298, March 2000.
W	DP	Yamada et al., "Differential Display Analysis of Murine Collagen-Induced Arthritis: Cloning of the cDNA-Encoding Murine ATPase Inhibitor," <i>Immunology</i> 92(4):571-576, December 1997.

EXAMINER	DATE CONSIDERED
Konstantina Lathouros	4/16/03

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